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Order from OTS or SLA \$1.60 60-23424

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p. 52-64.

DESCRIPTORS: *Sulfuric acid, Viscosity, Tempera-
ture, Electrolytes.

Viscosity measurements of sulfuric acid have been
made with an Ostwald viscosimeter in the concentration
range 80 to 115% H_2SO_4 and in the temperature range
 20° to 132° C. The values reported are accurate to
 ± 0.5 per cent. Dilute solutions of sodium hydrogen
sulfate and acetic acid anhydride in sulfuric acid have
also been investigated. An equation has been proposed
for expressing the temperature dependence of viscosity.
(Chemistry--Physical, TT. v. 8, no. 1) (over)

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 - IV. Tennessee Valley Authority,
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*Gas discharges, Chemical reactions

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Order from SLA \$1.10

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DESCRIPTORS: *Semiconductors, Materials, Diffusion,
*Crystals, Measurement, Solid State physics,
Germanium.

The accuracy in the measurement of small diffusion
depths in semiconductor materials can be appreciably
heightened by a special grinding technique elaborated
in detail. The method is simple and a few examples
are given. Furthermore, it is shown that the necessary
marking of the diffusion boundary can be applied also to
 $n^+ - n$ junctions by means of a galvanic copper
precipitate. (Author)

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Order from TTIS \$7.00

TTIS NS-38

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DESCRIPTORS: *Radioactive waste, Chemical reac-
tions, *Storage batteries, *Fuel cells.

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Trans. of Zellstoff und Papier (Germany) 1960, v. 9,
no. 8, p. 291-297.

The investigation of aluminum sulphite cooking liquors as pulping agent produced the following results. (1) The unbleached pulp is of good brightness and strength and easy to beat. Bleachability is good. Bleached pulps of high brightness, high-alpha-cellulose content, and good strength are obtainable. Furthermore, pulps of unusual properties such as pulps with very high bulk can be obtained. (2) Cooking liquors of high combine level can be produced without risking base deposits, owing to better solubility of aluminum salt in comparison with lime. (3) The danger of "burnt" cooks is significantly less. (4) Aluminum sulphite can be easily subjected to thermal decomposition according (Materials-Paper TT, v. 5, no. 9) (over)

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TT-64-14052

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Order from OTS, SLA, or ETC \$1.10 TT-64-14052

Trans. of German patent 763,557, cl. 120, gr. 23 61,
pat. from 4 Nov 41, grant pub. 4 Jan 45. (Abstract
available)

DESCRIPTORS: *Pesticides, Preparation, *Lignin,
*Sulfonic acids, *Cyanogens, Sulfur compounds,
Halides.

The processes for the production of thiocyanogen com-
pounds of lignin sulfonic acid are characterized by the
fact that halides are gradually introduced into solutions
of lignin sulfonic acid which have been treated with
thiocyanogen salts. (Author)
(Chemistry--Organic, TT, v. 11, no. 7)

- I. Title: Thiocyanogen
- I. Schwabe, K.
- II. Patent (Germany) 763 557

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Field 7C

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Enemy Doc Issue 116

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Contributions to the Complex Chemistry of
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IX. Heavy Metal Complexes of Tetracyclo-
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JPRS 12025

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THE APPLICATION OF A NEW METHOD FOR THE
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FERTILIZERS. [1969] [14]p. 5 refs.
Order from SLA \$1.60

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Trans. from Landwirtschaftliches Jahrbuch für Bayern
(West Germany) 1953, v. 30, no. 1/2.

DESCRIPTORS: *Fertilizers, *Potassium compounds,
*Oxides, *Nitrogen, Chemical analysis, Quantitative
analysis.

The method for the determination of potassium and
ammonium by means of sodium tetraphenylborate
(Kalligros) in .1 N acid solution in the cold was
applied for the analysis of mixed fertilizers. The
determination of potassium by this method is far
superior to the perchloric acid method because it can
(Chemistry--Analytical, TT, v. 10, no. 7) (over)

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II. Kohler, M.

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ASLIB-G2153

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The Strength of Tubes Under Internal Pressure at
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SLA 60-18804

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SLA Tr 57-269

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The Hygroscopicity of Woods Dried in Various Ways,
by Carl G. Schwalbe, Kurt Beradt, 14 p.

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BLA 59-20455

Sci
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Vol 3, No 1

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Arrangement Co

Motion of a Penetration
Like into a Rotary Motion
Constant Speed, by N. P. T. Schmalzer

SWEDISH, patent no. 129,143

Patent Office
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Arrangement for Converting the Oscillatory
Motion of a Pendulum, a Balance Wheel or the
Like into a Rotary Motion Effected With
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SWEDISH, patent no. 129,143

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Jul 60

ELLENDER, W.
SCHWALBE, R.

Archiv eisenhüttenwesen, vol. 13, 10 figures, 400
words; 1939.

Influence of Sintering Time, Sintering Temperature,
and Compacting Pressure upon Mechanical Properties
of Sintered Iron.

Brutcher Trans, Order No. 804A, \$4.90.

Long-Term Behavior of a Homogeneous Spherical
Nature Uranium-Heavy Water Reactor With an
Outer Control-Rod Zone, by D. Schmalz,
39 pp.

GERMAN, per, Atomkernenergie, No 7/8, 1961,
pp 273-285. 9673563

~~FID-21-61-170~~

Sci - Nuc/Phys
2 Mar 62

186.222

03-10835

Schwalbe, Rolf.
PROPOSALS FOR TESTING METAL POWDERS.
[1963] 23p. 10 refs.
Order from SLA \$2.60 63-16835

Trans. of Stahl und Eisen (West Germany) 1952,
v. 72, p. 898-904 [(Verein Deutscher Eisenhüttenleute)
(West Germany). [Berichte]-14).

DESCRIPTORS: *Powder metals, *Metallography,
Test methods, Quantitative analysis, Grain structure
(Metallurgy), Mechanical properties.

A compilation is made of the methods that appear
suitable to characterize the properties of metal
powders. The following tests are described, in part
based on those of the Metal Powder Association: (1)
Tests of chemical composition: Determination of
oxygen content, metallic constituents and insoluble
(Metallurgy, TT, v. 10, no. 8) (owir)

I. Schwalbe, R.
II. Verein ... Berichte-14

AC47751

Office of Technical Services

SWISS, Patent No 183-970.

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300 Jan 64

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Diseases of Adult Bees - Nosema Disease, by Bertil
Schwan.

UNKNOWN

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Electrode Polarization and Its Effect on Determination
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Biological Material, by H. Schwan.
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